



C007-7022US0 - Sequence Listing  
SEQUENCE LISTING

<110> Cohen, Edward H

<120> CONFORMATION SPECIFIC ANTIBODIES

<130> C007-7022US0

<140> US 10/589,956

<141> 2007-09-20

<160> 61

<170> PatentIn version 3.4

<210> 1

<211> 5

<212> PRT

<213> Homo sapiens

<400> 1

Arg Tyr Val Met Trp  
1 5

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Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

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Ser Tyr Asp Phe Trp Ser Asn Ala Phe Asp Ile  
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<222> (1)..(13)

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Xaa Ser Xaa Asp Xaa Xaa Ser Xaa Ala Xaa Xaa Xaa Xaa  
1 5 10

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Ser Tyr Asp Leu Trp Ser Asn Ala Tyr Asp Lys  
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Ser Tyr Asp Leu Trp Ser Asn Ala Tyr Asp Lys  
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Arg Ala Ser Gln Ser Ile Gly Ser Tyr Leu Asn  
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Ala Ala Ser Ser Leu Gln Ser  
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<210> 9  
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<213> Homo sapiens

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Gln Gln Ser Tyr Ser Thr Pro Ser  
1 5

<210> 10

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His Tyr Gly Met Ser  
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<210> 11

<211> 17

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<400> 11

Val Ile Ser Pro Ser Gly Gly Arg Thr Leu Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

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<213> Homo sapiens

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His Tyr Ser Tyr Ala Met Asp Val  
1 5

<210> 13

<211> 11

<212> PRT

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<400> 13

Thr Ala Ser Gln Ser Val Asp Ser Asn Leu Ala  
1 5 10

<210> 14

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<213> Homo sapiens

<400> 14

C007-7022US0 - Sequence Listing

Gly Ala Ser Thr Arg Ala Thr  
1 5

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Gln Gln Tyr Asn Lys Trp Pro Pro Tyr Ser  
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<400> 16

His Tyr Ser Met Gln  
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<210> 17  
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Tyr Ile Gly Ser Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

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Gly Thr Tyr Asn Thr Ser Pro Phe Asp Tyr  
1 5 10

<210> 19  
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Ser Gly Asp Ala Leu Gly Gln Lys Tyr Ala Ser  
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<210> 20  
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<400> 20

Gln Asp Ser Lys Arg Pro Ser  
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Gln Ala Trp Asp Thr Thr Ala Tyr Val  
1 5

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<400> 22

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly  
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Gly Ser Tyr  
20 25 30

Leu Asn Trp Tyr Gln Gln Lys Thr Gly Lys Ala Pro Lys Ala Leu Ile  
35 40 45

Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly  
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Leu  
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro Ser  
85 90 95

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr  
100 105

<210> 23  
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<213> Homo sapiens

<400> 23

C007-7022US0 - Sequence Listing

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr  
20 25 30

Val Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Ser Ser Tyr Asp Phe Trp Ser Asn Ala Phe Asp Ile Trp Gly Gln  
100 105 110

Gly Thr Met Val Thr Val Ser Ser  
115 120

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Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly  
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Gly Ser Tyr  
20 25 30

Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Ala Leu Ile  
35 40 45

Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly  
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro  
65 70 75 80

C007-7022US0 - Sequence Listing

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro Ser  
85 90 95

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr  
100 105

<210> 25  
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<212> PRT  
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<220>  
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<222> (1)..(120)

<400> 25

Glu Val Gln Leu Leu Glu Ser Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr  
20 25 30

Val Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Ser Ser Tyr Asp Phe Trp Ser Asn Ala Phe Asp Ile Trp Gly Gln  
100 105 110

Gly Thr Met Val Thr Val Ser Ser  
115 120

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C007-7022US0 - Sequence Listing

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Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro Gly  
1 5 10 15

Glu Arg Val Thr Leu Ser Cys Thr Ala Ser Gln Ser Val Asp Ser Asn  
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Val  
35 40 45

Tyr Gly Ala Ser Thr Arg Ala Thr Gly Val Pro Ala Arg Phe Ser Gly  
50 55 60

Ser Gly Ser Gly Thr Ala Phe Thr Leu Thr Ile Asp Ser Leu Gln Ser  
65 70 75 80

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Asn Lys Trp Pro Pro  
85 90 95

Tyr Ser Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr  
100 105 110

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<211> 117

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Glu Val Gln Leu Leu Glu Ser Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser His Tyr  
20 25 30

Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Val Ile Ser Pro Ser Gly Gly Arg Thr Leu Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

C007-7022US0 - Sequence Listing

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Lys His Tyr Ser Tyr Ala Met Asp Val Trp Gly Gln Gly Thr Thr  
100 105 110

Val Thr Val Ser Ser  
115

<210> 28  
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Ser Val Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln Thr  
1 5 10 15

Ala Ser Val Thr Cys Ser Gly Asp Ala Leu Gly Gln Lys Tyr Ala Ser  
20 25 30

Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Phe Gln  
35 40 45

Asp Ser Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser Asn  
50 55 60

Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Val Asp  
65 70 75 80

Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Thr Thr Ala Tyr Val Phe  
85 90 95

Gly Thr Gly Thr Lys Val Thr Val Leu  
100 105

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C007-7022US0 - Sequence Listing

Glu Val Gln Leu Leu Glu Ser Gly Gly Leu Val Gln Pro Gln Gln  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser His Tyr  
20 25 30

Ser Met Gln Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Tyr Ile Gly Ser Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Glu Gly Thr Tyr Asn Thr Ser Pro Phe Asp Tyr Trp Gly Gln Gly  
100 105 110

Thr Leu Val Thr Val Ser Ser  
115

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<211> 1170

<212> PRT

<213> Homo sapiens

<400> 30

Met Lys Asp Ser Cys Ile Thr Val Met Ala Met Ala Leu Leu Ser Gly  
1 5 10 15

Phe Phe Phe Ala Pro Ala Ser Ser Tyr Asn Leu Asp Val Arg Gly  
20 25 30

Ala Arg Ser Phe Ser Pro Pro Arg Ala Gly Arg His Phe Gly Tyr Arg  
35 40 45

Val Leu Gln Val Gly Asn Gly Val Ile Val Gly Ala Pro Gly Glu Gly  
50 55 60

Asn Ser Thr Gly Ser Leu Tyr Gln Cys Gln Ser Gly Thr Gly His Cys  
65 70 75 80

Leu Pro Val Thr Leu Arg Gly Ser Asn Tyr Thr Ser Lys Tyr Leu Gly  
85 90 95

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Met Thr Leu Ala Thr Asp Pro Thr Asp Gly Ser Ile Leu Ala Cys Asp  
100 105 110

Pro Gly Leu Ser Arg Thr Cys Asp Gln Asn Thr Tyr Leu Ser Gly Leu  
115 120 125

Cys Tyr Leu Phe Arg Gln Asn Leu Gln Gly Pro Met Leu Gln Gly Arg  
130 135 140

Pro Gly Phe Gln Glu Cys Ile Lys Gly Asn Val Asp Leu Val Phe Leu  
145 150 155 160

Phe Asp Gly Ser Met Ser Leu Gln Pro Asp Glu Phe Gln Lys Ile Leu  
165 170 175

Asp Phe Met Lys Asp Val Met Lys Leu Ser Asn Thr Ser Tyr Gln  
180 185 190

Phe Ala Ala Val Gln Phe Ser Thr Ser Tyr Lys Thr Glu Phe Asp Phe  
195 200 205

Ser Asp Tyr Val Lys Trp Lys Asp Pro Asp Ala Leu Leu Lys His Val  
210 215 220

Lys His Met Leu Leu Leu Thr Asn Thr Phe Gly Ala Ile Asn Tyr Val  
225 230 235 240

Ala Thr Glu Val Phe Arg Glu Glu Leu Gly Ala Arg Pro Asp Ala Thr  
245 250 255

Lys Val Leu Ile Ile Ile Thr Asp Gly Glu Ala Thr Asp Ser Gly Asn  
260 265 270

Ile Asp Ala Ala Lys Asp Ile Ile Arg Tyr Ile Ile Gly Ile Gly Lys  
275 280 285

His Phe Gln Thr Lys Glu Ser Gln Glu Thr Leu His Lys Phe Ala Ser  
290 295 300

Lys Pro Ala Ser Glu Phe Val Lys Ile Leu Asp Thr Phe Glu Lys Leu  
305 310 315 320

Lys Asp Leu Phe Thr Glu Leu Gln Lys Lys Ile Tyr Val Ile Glu Gly  
325 330 335

Thr Ser Lys Gln Asp Leu Thr Ser Phe Asn Met Glu Leu Ser Ser Ser  
340 345 350

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Gly Ile Ser Ala Asp Leu Ser Arg Gly His Ala Val Val Gly Ala Val  
355 360 365

Gly Ala Lys Asp Trp Ala Gly Gly Phe Leu Asp Leu Lys Ala Asp Leu  
370 375 380

Gln Asp Asp Thr Phe Ile Gly Asn Glu Pro Leu Thr Pro Glu Val Arg  
385 390 395 400

Ala Gly Tyr Leu Gly Tyr Thr Val Thr Trp Leu Pro Ser Arg Gln Lys  
405 410 415

Thr Ser Leu Leu Ala Ser Gly Ala Pro Arg Tyr Gln His Met Gly Arg  
420 425 430

Val Leu Leu Phe Gln Glu Pro Gln Gly Gly His Trp Ser Gln Val  
435 440 445

Gln Thr Ile His Gly Thr Gln Ile Gly Ser Tyr Phe Gly Gly Glu Leu  
450 455 460

Cys Gly Val Asp Val Asp Gln Asp Gly Glu Thr Glu Leu Leu Leu Ile  
465 470 475 480

Gly Ala Pro Leu Phe Tyr Gly Glu Gln Arg Gly Gly Arg Val Phe Ile  
485 490 495

Tyr Gln Arg Arg Gln Leu Gly Phe Glu Glu Val Ser Glu Leu Gln Gly  
500 505 510

Asp Pro Gly Tyr Pro Leu Gly Arg Phe Gly Glu Ala Ile Thr Ala Leu  
515 520 525

Thr Asp Ile Asn Gly Asp Gly Leu Val Asp Val Ala Val Gly Ala Pro  
530 535 540

Leu Glu Glu Gln Gly Ala Val Tyr Ile Phe Asn Gly Arg His Gly Gly  
545 550 555 560

Leu Ser Pro Gln Pro Ser Gln Arg Ile Glu Gly Thr Gln Val Leu Ser  
565 570 575

Gly Ile Gln Trp Phe Gly Arg Ser Ile His Gly Val Lys Asp Leu Glu  
580 585 590

Gly Asp Gly Leu Ala Asp Val Ala Val Gly Ala Glu Ser Gln Met Ile  
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600                   605

Val Leu Ser Ser Arg Pro Val Val Asp Met Val Thr Leu Met Ser Phe  
610                         615                         620

Ser Pro Ala Glu Ile Pro Val His Glu Val Glu Cys Ser Tyr Ser Thr  
625                         630                         635                         640

Ser Asn Lys Met Lys Glu Gly Val Asn Ile Thr Ile Cys Phe Gln Ile  
645                         650                         655

Lys Ser Leu Tyr Pro Gln Phe Gln Gly Arg Leu Val Ala Asn Leu Thr  
660                         665                         670

Tyr Thr Leu Gln Leu Asp Gly His Arg Thr Arg Arg Arg Gly Leu Phe  
675                         680                         685

Pro Gly Gly Arg His Glu Leu Arg Arg Asn Ile Ala Val Thr Thr Ser  
690                         695                         700

Met Ser Cys Thr Asp Phe Ser Phe His Phe Pro Val Cys Val Gln Asp  
705                         710                         715                         720

Leu Ile Ser Pro Ile Asn Val Ser Leu Asn Phe Ser Leu Trp Glu Glu  
725                         730                         735

Glu Gly Thr Pro Arg Asp Gln Arg Ala Gln Gly Lys Asp Ile Pro Pro  
740                         745                         750

Leu Leu Arg Pro Ser Leu His Ser Glu Thr Trp Glu Ile Pro Phe Glu  
755                         760                         765

Lys Asn Cys Gly Glu Asp Lys Lys Cys Glu Ala Asn Leu Arg Val Ser  
770                         775                         780

Phe Ser Pro Ala Arg Ser Arg Ala Leu Arg Leu Thr Ala Phe Ala Ser  
785                         790                         795                         800

Leu Ser Val Glu Leu Ser Leu Ser Asn Leu Glu Glu Asp Ala Tyr Trp  
805                         810                         815

Val Gln Leu Asp Leu His Phe Pro Pro Gly Leu Ser Phe Arg Lys Val  
820                         825                         830

Glu Met Leu Lys Pro His Ser Gln Ile Pro Val Ser Cys Glu Glu Leu  
835                         840                         845

C007-7022US0 - Sequence Listing

Pro Glu Glu Ser Arg Leu Leu Ser Arg Ala Leu Ser Cys Asn Val Ser  
850 855 860

Ser Pro Ile Phe Lys Ala Gly His Ser Val Ala Leu Gln Met Met Phe  
865 870 875 880

Asn Thr Leu Val Asn Ser Ser Trp Gly Asp Ser Val Glu Leu His Ala  
885 890 895

Asn Val Thr Cys Asn Asn Glu Asp Ser Asp Leu Leu Glu Asp Asn Ser  
900 905 910

Ala Thr Thr Ile Ile Pro Ile Leu Tyr Pro Ile Asn Ile Leu Ile Gln  
915 920 925

Asp Gln Glu Asp Ser Thr Leu Tyr Val Ser Phe Thr Pro Lys Gly Pro  
930 935 940

Lys Ile His Gln Val Lys His Met Tyr Gln Val Arg Ile Gln Pro Ser  
945 950 955 960

Ile His Asp His Asn Ile Pro Thr Leu Glu Ala Val Val Gly Val Pro  
965 970 975

Gln Pro Pro Ser Glu Gly Pro Ile Thr His Gln Trp Ser Val Gln Met  
980 985 990

Glu Pro Pro Val Pro Cys His Tyr Glu Asp Leu Glu Arg Leu Pro Asp  
995 1000 1005

Ala Ala Glu Pro Cys Leu Pro Gly Ala Leu Phe Arg Cys Pro Val  
1010 1015 1020

Val Phe Arg Gln Glu Ile Leu Val Gln Val Ile Gly Thr Leu Glu  
1025 1030 1035

Leu Val Gly Glu Ile Glu Ala Ser Ser Met Phe Ser Leu Cys Ser  
1040 1045 1050

Ser Leu Ser Ile Ser Phe Asn Ser Ser Lys His Phe His Leu Tyr  
1055 1060 1065

Gly Ser Asn Ala Ser Leu Ala Gln Val Val Met Lys Val Asp Val  
1070 1075 1080

Val Tyr Glu Lys Gln Met Leu Tyr Leu Tyr Val Leu Ser Gly Ile  
1085 1090 1095

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Gly Gly Leu Leu Leu Leu Leu Ile Phe Ile Val Leu Tyr Lys  
1100 1105 1110

Val Gly Phe Phe Lys Arg Asn Leu Lys Glu Lys Met Glu Ala Gly  
1115 1120 1125

Arg Gly Val Pro Asn Gly Ile Pro Ala Glu Asp Ser Glu Gln Leu  
1130 1135 1140

Ala Ser Gly Gln Glu Ala Gly Asp Pro Gly Cys Leu Lys Pro Leu  
1145 1150 1155

His Glu Lys Asp Ser Glu Ser Gly Gly Gly Lys Asp  
1160 1165 1170

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<213> Homo sapiens

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Met Leu Gly Leu Arg Pro Pro Leu Leu Ala Leu Val Gly Leu Leu Ser  
1 5 10 15

Leu Gly Cys Val Leu Ser Gln Glu Cys Thr Lys Phe Lys Val Ser Ser  
20 25 30

Cys Arg Glu Cys Ile Glu Ser Gly Pro Gly Cys Thr Trp Cys Gln Lys  
35 40 45

Leu Asn Phe Thr Gly Pro Gly Asp Pro Asp Ser Ile Arg Cys Asp Thr  
50 55 60

Arg Pro Gln Leu Leu Met Arg Gly Cys Ala Ala Asp Asp Ile Met Asp  
65 70 75 80

Pro Thr Ser Leu Ala Glu Thr Gln Glu Asp His Asn Gly Gly Gln Lys  
85 90 95

Gln Leu Ser Pro Gln Lys Val Thr Leu Tyr Leu Arg Pro Gly Gln Ala  
100 105 110

Ala Ala Phe Asn Val Thr Phe Arg Arg Ala Lys Gly Tyr Pro Ile Asp  
115 120 125

Leu Tyr Tyr Leu Met Asp Leu Ser Tyr Ser Met Leu Asp Asp Leu Arg  
130 135 140

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Asn Val Lys Lys Leu Gly Gly Asp Leu Leu Arg Ala Leu Asn Glu Leu  
145 150 155 160

Thr Glu Ser Gly Arg Ile Gly Phe Gly Ser Phe Val Asp Lys Thr Val  
165 170 175

Leu Pro Phe Val Asn Thr Ile Ile Pro Asp Lys Leu Arg Asn Pro Cys  
180 185 190

Pro Asn Lys Glu Lys Glu Cys Gln Pro Pro Phe Ala Phe Arg His Val  
195 200 205

Leu Lys Leu Thr Asn Asn Ser Asn Gln Phe Gln Thr Glu Val Gly Lys  
210 215 220

Gln Leu Ile Ser Gly Asn Leu Asp Ala Pro Glu Gly Gly Leu Asp Ala  
225 230 235 240

Met Met Gln Val Ala Ala Cys Pro Glu Glu Ile Gly Trp Arg Asn Val  
245 250 255

Thr Arg Leu Leu Val Phe Ala Thr Asp Asp Gly Phe His Phe Ala Gly  
260 265 270

Asp Gly Lys Leu Gly Ala Ile Leu Thr Pro Asn Asp Gly Arg Cys His  
275 280 285

Leu Glu Asp Asn Leu Tyr Lys Arg Ser Asn Glu Phe Asp Val Pro Ser  
290 295 300

Val Gly Gln Leu Ala His Lys Leu Ala Glu Asn Asn Ile Gln Pro Ile  
305 310 315 320

Phe Ala Val Thr Ser Arg Met Val Lys Thr Tyr Glu Lys Leu Thr Glu  
325 330 335

Ile Ile Pro Lys Ser Ala Val Gly Glu Leu Ser Glu Asp Ser Ser Asn  
340 345 350

Val Val His Leu Ile Lys Asn Ala Tyr Asn Lys Leu Ser Ser Arg Val  
355 360 365

Phe Leu Asp His Asn Ala Leu Pro Asp Thr Leu Lys Val Thr Tyr Asp  
370 375 380

Ser Phe Cys Ser Asn Gly Val Thr His Arg Asn Gln Pro Arg Gly Asp  
385 390 395 400

C007-7022US0 - Sequence Listing

Cys Asp Gly Val Gln Ile Asn Val Pro Ile Thr Phe Gln Val Lys Val  
405 410 415

Thr Ala Thr Glu Cys Ile Gln Glu Gln Ser Phe Val Ile Arg Ala Leu  
420 425 430

Gly Phe Thr Asp Ile Val Thr Val Gln Val Leu Pro Gln Cys Glu Cys  
435 440 445

Arg Cys Arg Asp Gln Ser Arg Asp Arg Ser Leu Cys His Gly Lys Gly  
450 455 460

Phe Leu Glu Cys Gly Ile Cys Arg Cys Asp Thr Gly Tyr Ile Gly Lys  
465 470 475 480

Asn Cys Glu Cys Gln Thr Gln Gly Arg Ser Ser Gln Glu Leu Glu Gly  
485 490 495

Ser Cys Arg Lys Asp Asn Asn Ser Ile Ile Cys Ser Gly Leu Gly Asp  
500 505 510

Cys Val Cys Gly Gln Cys Leu Cys His Thr Ser Asp Val Pro Gly Lys  
515 520 525

Leu Ile Tyr Gly Gln Tyr Cys Glu Cys Asp Thr Ile Asn Cys Glu Arg  
530 535 540

Tyr Asn Gly Gln Val Cys Gly Gly Pro Gly Arg Gly Leu Cys Phe Cys  
545 550 555 560

Gly Lys Cys Arg Cys His Pro Gly Phe Glu Gly Ser Ala Cys Gln Cys  
565 570 575

Glu Arg Thr Thr Glu Gly Cys Leu Asn Pro Arg Arg Val Glu Cys Ser  
580 585 590

Gly Arg Gly Arg Cys Arg Cys Asn Val Cys Glu Cys His Ser Gly Tyr  
595 600 605

Gln Leu Pro Leu Cys Gln Glu Cys Pro Gly Cys Pro Ser Pro Cys Gly  
610 615 620

Lys Tyr Ile Ser Cys Ala Glu Cys Leu Lys Phe Glu Lys Gly Pro Phe  
625 630 635 640

Gly Lys Asn Cys Ser Ala Ala Cys Pro Gly Leu Gln Leu Ser Asn Asn  
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C007-7022US0 - Sequence Listing  
650 655

Pro Val Lys Gly Arg Thr Cys Lys Glu Arg Asp Ser Glu Gly Cys Trp  
660 665 670

Val Ala Tyr Thr Leu Glu Gln Gln Asp Gly Met Asp Arg Tyr Leu Ile  
675 680 685

Tyr Val Asp Glu Ser Arg Glu Cys Val Ala Gly Pro Asn Ile Ala Ala  
690 695 700

Asn Gly Gly Thr Val Ala Gly Ile Val Leu Ile Gly Ile Leu Leu Leu  
705 710 715 720

Val Ile Trp Lys Ala Leu Ile His Leu Ser Asp Leu Arg Glu Tyr Arg  
725 730 735

Arg Phe Glu Lys Glu Lys Leu Lys Ser Gln Trp Asn Asn Asp Asn Pro  
740 745 750

Leu Phe Lys Ser Ala Thr Thr Val Met Asn Pro Lys Phe Ala Glu  
755 760 765

Ser

<210> 32

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<212> PRT

<213> Homo sapiens

<400> 32

Gly Asn Val Asp Leu Val Phe Leu Phe Asp Gly Ser Met Ser Leu Gln  
1 5 10 15

Pro Asp Glu Phe Gln Lys Ile Leu Asp Phe Met Lys Asp Val Met Lys  
20 25 30

Lys Leu Ser Asn Thr Ser Tyr Gln Phe Ala Ala Val Gln Phe Ser Thr  
35 40 45

Ser Glu Glu Glu Glu Glu Glu Asx Thr Thr Ser His His His  
50 55 60

His Thr Thr  
65 70 75 80

Thr Ser Ser Glu Glu Glu Glu Glu Glu Glu Ser Ser Ser Tyr Lys  
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C007-7022US0 - Sequence Listing  
90 95

Thr Glu Phe Asp Phe Ser Asp Tyr Val Lys Arg Lys Asp Pro Asp Ala  
100 105 110

Leu Leu Lys His Val Lys His Met Leu Leu Leu Thr Asn Thr Phe Gly  
115 120 125

Ala Ile Asn Tyr Val Ala Thr Glu Val Phe Arg Glu Glu Leu Gly Ala  
130 135 140

Glu Glu Glu Ser Asx His His His His His His Thr Thr Thr His His  
145 150 155 160

His His Thr Ser Ser Asx His  
165 170 175

His Thr Thr Thr Gly Gly Gly Thr Arg Pro Asp Ala Thr Lys Val Leu  
180 185 190

Ile Ile Ile Thr Asp Gly Glu Ala Thr Asp Ser Gly Asn Ile Asp Ala  
195 200 205

Ala Lys Asp Ile Ile Arg Tyr Ile Ile Gly Ile Gly Lys His Phe Gln  
210 215 220

Thr Lys Glu Ser Gln Glu Thr Leu His Lys Thr Thr Ser Glu Glu Glu  
225 230 235 240

Glu Glu Glu Glu Glu Ser Ser Gly Gly Gly Thr Thr Ser Glu Glu Glu  
245 250 255

Glu Glu Glu Ser Ser Ser Thr Thr Thr Gly Gly Gly Gly Thr Thr Phe  
260 265 270

Ala Ser Lys Pro Ala Ser Glu Phe Val Lys Ile Leu Asp Thr Phe Glu  
275 280 285

Lys Leu Lys Asp Leu Phe Thr Glu Leu Gln Lys Lys Ile Thr Ser Ser  
290 295 300

Ser His His His Glu Glu Glu Thr Thr Thr Thr Thr Thr Thr Thr Thr  
305 310 315 320

Thr Thr Thr

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<211> 109  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (1)..(109)

<400> 33

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Gly Ser  
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Thr Gly Lys Ala Pro Lys Ala Leu  
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Leu Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro  
85 90 95

Ser Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr  
100 105

<210> 34  
<211> 111  
<212> PRT  
<213> Homo sapiens

<220>  
<221> Protein  
<222> (1)..(111)

<400> 34

Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro  
1 5 10 15

Gly Glu Arg Val Thr Leu Ser Cys Thr Ala Ser Gln Ser Val Asp Ser  
20 25 30

Asn Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu  
35 40 45

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Val Tyr Gly Ala Ser Thr Arg Ala Thr Gly Val Pro Ala Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Ala Phe Thr Leu Tyr Ile Asp Ser Leu Gln  
65 70 75 80

Ser Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Asn Lys Trp Pro  
85 90 95

Pro Tyr Ser Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr  
100 105 110

<210> 35  
<211> 106  
<212> PRT  
<213> Homo sapiens

<220>  
<221> Protein  
<222> (1)..(106)

<400> 35

Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Ser Val Thr Cys Ser Gly Asp Ala Leu Gly Gln Lys Tyr Ala  
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Phe  
35 40 45

Gln Asp Ser Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Val  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Thr Thr Ala Tyr Val  
85 90 95

Phe Gly Thr Gly Thr Lys Val Thr Val Leu  
100 105

<210> 36  
<211> 120  
<212> PRT  
<213> Homo sapiens

<220>

C007-7022US0 - Sequence Listing

<221> Protein  
<222> (1)..(120)

<400> 36

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr  
20 25 30

Val Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Ser Ser Tyr Asp Phe Trp Ser Asn Ala Phe Asp Ile Trp Gly Gln  
100 105 110

Gly Thr Met Val Thr Val Ser Ser  
115 120

<210> 37  
<211> 117  
<212> PRT  
<213> Homo sapiens

<220>  
<221> Protein  
<222> (1)..(117)

<400> 37

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser His Tyr  
20 25 30

Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Val Ile Ser Pro Ser Gly Gly Arg Thr Leu Tyr Ala Asp Ser Val  
50 55 60

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Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Lys His Tyr Ser Tyr Ala Met Asp Val Trp Gly Gln Gly Thr Thr  
100 105 110

Val Thr Val Ser Ser  
115

<210> 38  
<211> 122  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (100)..(100)  
<223> Xaa can be any naturally occurring amino acid

<400> 38

Glu Val Gln Leu Leu Glu Ser Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser His Tyr  
20 25 30

Ser Met Gln Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Tyr Ile Gly Ser Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Gly Xaa Ala Ala Thr Tyr Asn Thr Ser Pro Phe Asp Tyr Trp  
100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120

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<210> 39  
<211> 321  
<212> DNA  
<213> Homo sapiens

<220>  
<221> DNA  
<222> (1)..(321)

<400> 39  
caagacatcc agatgaccca gtctccatcc tccctgtctg catctgtagg agacagagtc 60  
accatcactt gccgggcaag tcagagcatt ggcagctact taaactggta tcagcagaaa 120  
acagggaaag cccctaaggc cctgatctat gctgcatcca gtttgcaaag tgggtcccc 180  
tcaaggttca gtggcagtgg gtctggaca gatttcactc tcaccatcag tagtctgcaa 240  
cttgaagatt ttgcaactta ctactgtcaa cagagttaca gtaccccctc gttcggccaa 300  
gggaccaagg tggaaatcaa a 321

<210> 40  
<211> 327  
<212> DNA  
<213> Homo sapiens

<400> 40  
caagacatcc agatgaccca gtctccagcc accctgtctg tgtctccagg ggaaagagtc 60  
accctctcct gcacggccag tcagagtgtt gacagcaact tagcctggta tcagcaaaaa 120  
cctggccagg ctcccagact cctcgatctat ggtgcatcca ctagggccac tgggtcccc 180  
gccaggttca gtggcagtgg gtctggaca gcgttcactc tcaccatcga cagcctgcag 240  
tctgaagatt ttgcagttt ttactgtcag cagtataata agtggcctcc gtactccccc 300  
ggccagggga ccaagctgga gatcaag 327

<210> 41  
<211> 318  
<212> DNA  
<213> Homo sapiens

<220>  
<221> DNA  
<222> (1)..(318)

<400> 41  
cagagcgtct tgactcagcc accctcagtg tccgtctccc caggacagac agccagcgtc 60  
acttgctctg gagatgcatt gggacaaaaa tatgcttcct ggtatcaaca gaagccaggc 120  
cagtcccctg tactggtcat ctttcaagat tccaagcggc cctcaggat ccctgagcgg 180  
ttctctggct ccaattctgg gaacacagcc actctgacca tcagcggac ccaggctgtg 240  
gatgaggccg actattatttgc tcaggcgtgg gacactacag cttatgtctt cggaactggg 300

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accaaggta ccgtccta

318

<210> 42  
 <211> 360  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> DNA  
 <222> (1)..(360)

<400> 42		
gaagttcaat tggtagatc tggggcggt cttgttcagc ctgggggttc tttacgtctt	60	
tcttgcgctg cttccggatt cactttctct cggtacgtta tgtgggggt tcgccaagct	120	
cctggtaaag gtttggagtg ggtttcttat atctggcctt ctggggcaa tacttattat	180	
gctgactccg taaaaggatcg cttcaactatc tcttagagaca actctaagaa tactctctac	240	
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagtagctac	300	
gattttttggaa gtaatgttt tgatatctgg ggccaaggaa caatggtcac cgtctcaagc	360	

<210> 43  
 <211> 351  
 <212> DNA  
 <213> Homo sapiens

<400> 43		
gaagttcaat tggtagatc tggggcggt cttgttcagc ctgggggttc tttacgtctt	60	
tcttgcgctg cttccggatt cactttctct cattacggta tgtctgggt tcgccaagct	120	
cctggtaaag gtttggagtg ggtttctgtt atctctcctt ctggggccg tactctttat	180	
gctgactccg taaaaggatcg cttcaactatc tcttagagaca actctaagaa tactctctac	240	
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gaaacattac	300	
tcctacgcta tggacgtctg gggccaaggaa accacggta ccgtctcaag c	351	

<210> 44  
 <211> 357  
 <212> DNA  
 <213> Homo sapiens

<400> 44		
gaagttcaat tggtagatc tggggcggt cttgttcagc ctgggggttc tttacgtctt	60	
tcttgcgctg cttccggatt cactttctct cattactcta tgcagtgggt tcgccaagct	120	
cctggtaaag gtttggagtg ggtttcttat atcggttctt ctggggcaa tacttattat	180	
gctgactccg taaaaggatcg cttcaactatc tcttagagaca actctaagaa tactctctac	240	
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagggacc	300	

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tataacacct ccccccttga ctactggggc cagggAACCC tggtcaccgt ctcaagc 357

<210> 45  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 45

Ala Glu Tyr Phe Gln His Trp Gly Gln Gly Thr Leu Val Thr Val Ser  
1 5 10 15

Ser

<210> 46  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 46

Tyr Trp Tyr Phe Asp Leu Trp Gly Arg Gly Thr Leu Val Thr Val Ser  
1 5 10 15

Ser

<210> 47  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 47

Ala Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser  
1 5 10 15

<210> 48  
<211> 29  
<212> PRT  
<213> Homo sapiens

<400> 48

Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Phe  
1 5 10 15

Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
20 25

<210> 49  
<211> 16  
<212> PRT  
<213> Homo sapiens

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<400> 49

Asn Trp Phe Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
1 5 10 15

<210> 50

<211> 20

<212> PRT

<213> Homo sapiens

<400> 50

Tyr Tyr Tyr Tyr Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val  
1 5 10 15

Thr Val Ser Ser  
20

<210> 51

<211> 120

<212> PRT

<213> Homo sapiens

<400> 51

Glu Val Gln Leu Leu Glu Ser Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr  
20 25 30

Val Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Ser Ser Tyr Asp Tyr Trp Ser Asn Ala Phe Asp Ser Trp Gly Gln  
100 105 110

Gly Thr Met Val Thr Val Ser Ser  
115 120

<210> 52

<211> 120

C007-7022US0 - Sequence Listing

<212> PRT

<213> Homo sapiens

<400> 52

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr  
20 25 30

Val Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Ser Ser Phe Asp Phe Trp Ser Asn Ala Phe Asp Met Trp Gly Gln  
100 105 110

Gly Thr Met Val Thr Val Ser Ser  
115 120

<210> 53

<211> 120

<212> PRT

<213> Homo sapiens

<400> 53

Glu Val Gln Leu Leu Glu Ser Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr  
20 25 30

Val Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Leu Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

C007-7022US0 - Sequence Listing

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Ser Ser Tyr Asp Leu Trp Ser Asn Ala Phe Asp Lys Trp Gly Gln  
100 105 110

Gly Thr Met Val Thr Val Ser Ser  
115 120

<210> 54  
<211> 120  
<212> PRT  
<213> Homo sapiens

<400> 54

Glu Val Gln Leu Leu Glu Ser Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr  
20 25 30

Val Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Leu Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Asn Ser Tyr Asp Phe Arg Ser Asn Ala Phe Ala Val Trp Gly Gln  
100 105 110

Gly Thr Met Val Thr Val Ser Ser  
115 120

<210> 55  
<211> 120  
<212> PRT  
<213> Homo sapiens

<220>  
<221> Protein  
<222> (1)..(120)

<400> 55

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Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr  
20 25 30

Val Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Ser Ser Tyr Asp Leu Trp Ser Tyr Ala Phe Glu Ile Trp Gly Gln  
100 105 110

Gly Thr Met Val Thr Val Ser Ser  
115 120

<210> 56  
<211> 120  
<212> PRT  
<213> Homo sapiens

<220>  
<221> Protein  
<222> (1)..(120)

<400> 56

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr  
20 25 30

Val Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

C007-7022US0 - Sequence Listing

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Ser Ser Tyr Asp Phe Trp Ser Asn Ala Tyr Ala Asn Trp Gly Gln  
100 105 110

Gly Thr Met Val Thr Val Ser Ser  
115 120

<210> 57

<211> 120

<212> PRT

<213> Homo sapiens

<400> 57

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr  
20 25 30

Val Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Leu Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Asn Ser Phe Asp Phe Trp Ser Asn Ala Phe Glu Leu Trp Gly Gln  
100 105 110

Gly Thr Met Val Thr Val Ser Ser  
115 120

<210> 58

<211> 639

<212> DNA

<213> Homo sapiens

<400> 58

gacatccaga tgacccagtc tccatcctcc ctgtctgcat ctgttaggaga cagagtacc 60

atcacattgcc gggcaagtca gagcattggc agctacttaa actggtatca gcagaaaacca 120

gggaaagccc ctaaggccct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca 180

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aggttcagtgcagtgggtc tgggacagat ttcaactctca ccatcagtag tctgcaacct	240
gaagattttg caacttacta ctgtcaacag agttacagta cccccctcggt cgccaaagg	300
accaagggtgg aaatcaaaag aactgtggct gcaccatctg tcttcatctt cccgccatct	360
gatgagcagt taaaatctgg aactgcctct gttgtgtgcc tgctgaataa cttctatccc	420
agagaggcca aagtacagtgcaggat aacgcccctcc aatcggtaa ctcccaggag	480
agtgtcacag agcaggacagc caaggacagc acctacagcc tcagcagcac cctgacgctg	540
agcaaagcag actacgagaa acacaaagtc tacgcctcg aagtacccca tcagggcctg	600
aqctcqcqqq tcacaaagq cttcaacagg ggagagtgt	639

<210> 59  
<211> 1344  
<212> DNA  
<213> *Homo sapiens*

<400> 59  
gaagttcaat tggtagatc tggtggcggt cttgttcagc ctggtggttc tttacgtctt 60  
tcttgcgtg cttccggatt cactttctct cgttacgtta tgtggtggt tcgccaagct 120  
cctggtaaag gtttggagtg ggtttcttat atctggcctt ctggtgcaa tacttattat 180  
gctgactccg taaaaggctcg cttcaactatc tctagagaca actctaagaa tactctctac 240  
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagtagctac 300  
gatTTTgga gtaatgctt tgatatctgg gccaaaggga caatggtcac cgtctcaagc 360  
gcctccacca agggcccattt ggtcttcccg ctagccccct gctccaggag cacctccgag 420  
agcacagccg ccctgggctg cctggtaag gactacttcc ccgaaccggg gacggtgtcg 480  
tggaaactcag gcgccttgac cagcggcgtc cacacccccc cggctgtcct acagtcctcc 540  
ggactctact ccctcagcag cgtatgtacc gtgccctcca gcagcttggg cacgaagacc 600  
tacacctgca acgtagatca caagcccagc aacaccaagg tggacaagag agttgagtcc 660  
aaatatggtc ccccatgccc atcatgccc gcacctgagt tcctgggggg accatcagtc 720  
ttcctgttcc ccccaaaacc caaggacact ctcatgtatct cccggacccc tgaggtcag 780  
tgcgtggtgg tggacgtgag ccaggaagac cccgaggtcc agttcaactg gtacgtggat 840  
ggcgtggagg tgcataatgc caagacaaag ccgcgggagg agcagttcaa cagcacgtac 900  
cgtgtggtca gcgtcctcac cgtccctgcac caggactggc tgaacggcaa ggagtacaag 960  
tgcaagggtct ccaacaaagg cctccctgtcc tccatcgaga aaaccatctc caaagccaaa 1020  
gggcagcccc gagagccaca ggtgtacacc ctgccccat cccaggagga gatgaccaag 1080  
aaccagggtca gcctgacccctg cctggtaaaa ggcttctacc ccagcgacat cgccgtggag 1140  
tgggagagca atgggcagcc ggagaacaac tacaagacca cgcctccgt gctggactcc 1200

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gacggctcct tcttcctcta cagcaggcta accgtggaca agagcaggtg gcaggagggg 1260  
aatgtttct catgctccgt gatgcattag gctctgcaca accactacac acagaagagc 1320  
ctctccctgt ctctggtaa atga 1344

<210> 60  
<211> 213  
<212> PRT  
<213> Homo sapiens

<220>  
<221> Protein  
<222> (1)..(213)

<400> 60

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly  
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Gly Ser Tyr  
20 25 30

Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Ala Leu Ile  
35 40 45

Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly  
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro  
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro Ser  
85 90 95

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala Pro  
100 105 110

Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr  
115 120 125

Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys  
130 135 140

Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu  
145 150 155 160

Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser  
165 170 175

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Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr Ala  
180 185 190

Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser Phe  
195 200 205

Asn Arg Gly Glu Cys  
210

<210> 61  
<211> 448  
<212> PRT  
<213> Homo sapiens

<220>  
<221> Protein  
<222> (1)..(448)

<400> 61

Glu Val Gln Leu Leu Glu Ser Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr  
20 25 30

Val Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Ser Ser Tyr Asp Phe Trp Ser Asn Ala Phe Asp Ile Trp Gly Gln  
100 105 110

Gly Thr Met Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val  
115 120 125

Phe Pro Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala  
130 135 140

Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser  
145 150 155 160

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Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val  
165 170 175

Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro  
180 185 190

Ser Ser Ser Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys  
195 200 205

Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Ser Lys Tyr Gly Pro  
210 215 220

Pro Cys Pro Ser Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val  
225 230 235 240

Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr  
245 250 255

Pro Glu Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu  
260 265 270

Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys  
275 280 285

Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser  
290 295 300

Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys  
305 310 315 320

Cys Lys Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile  
325 330 335

Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro  
340 345 350

Pro Ser Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu  
355 360 365

Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Ser  
370 375 380

Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp  
385 390 395 400

Ser Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser  
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405 c007-7022US0 - Sequence Listing  
410 415

Arg Trp Gln Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala  
420 425 430

Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys  
435 440 445